

ABSTRACT

5 A method of production of a metallic product with a  
nanocrystallized surface layer comprising subjecting a  
surface layer of a metallic product to ultrasonic impact  
treatment by one or more ultrasonic indenters vibrating  
in a plurality of directions, then subjecting the surface  
layer subjected to the ultrasonic impact treatment to  
heat treatment at a low temperature to cause  
10 precipitation of nanocrystals.